

WHAT IS CLAIMED IS:

1. An optical information recording medium, comprising:
a substrate with at least one selected from the group consisting of a
5 groove and a pit formed on one surface thereof;
at least one information layer provided on the surfaces of the
substrate, the information layer comprising at least one selected from the
group consisting of a recording film and a reflective film;
a resin layer provided on the information layer; and
10 a light transmission layer provided on the resin layer,
wherein the resin layer comprises a first resin film and a second resin
film disposed in this order from the side of the light transmission layer, and
when a water absorption rate of the first resin film is represented by A1 and a
water absorption rate of the second resin film is represented by A2, A1 and A2
15 satisfy: $A1 > A2$.
2. The optical information recording medium according to claim 1,
wherein the water absorption rate A2 of the second resin film is 10 wt.% or
less.
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3. The optical information recording medium according to claim 1,
wherein the thickness of the light transmission layer is 100 μm or less.
4. The optical information recording medium according to claim 1,
25 wherein the second resin film comprises at least an ultraviolet curable resin.
5. The optical information recording medium according to claim 1,
wherein the information layer comprises a first protective film, the recording
film, a second protective film and the reflective film disposed in this order
30 from the side on which a laser beam is incident,
the first protective film comprises ZnS, and
the second resin film is provided in contact with the first protective
film.
- 35 6. The optical information recording medium according to claim 1,
wherein the pit is formed on the surface of the substrate, the information
layer is made of the reflective film comprising at least one selected from the

group consisting of Ag, Al and Si, and the second resin film is provided in contact with the reflective film.

7. The optical information recording medium according to claim 1,
5 wherein the second resin film is provided so as to cover the end face of the information layer.

8. The optical information recording medium according to claim 7,
10 wherein the distance W between the end face of the second resin film and the end face of the information layer is 0.2 mm or more.

9. The optical information recording medium according to claim 1,
15 wherein when the thickness of the first resin film is represented by H1 and the thickness of the second resin film is represented by H2, H1 and H2 satisfy: $H1 > H2$.

10. The optical information recording medium according to claim 9,
20 wherein the thickness H2 of the second resin film is 0.2 μm or more and 0.5 μm or less.

11. The optical information recording medium according to claim 1,
wherein the second resin film is formed by spin coating.

12. The optical information recording medium according to claim 1,
25 wherein a plurality of information layers are provided between the substrate and the resin layer.

13. The optical information recording medium according to claim 1,
30 wherein when the flexural modulus of elasticity of the first resin film is represented by D1 and the flexural modulus of elasticity of the second resin film is represented by D2, D1 and D2 are different from each other.

14. The optical information recording medium according to claim 13,
35 wherein the flexural modulus of elasticity D1 of the first resin film and the flexural modulus of elasticity D2 of the second resin film satisfy: $D2 > D1$.

15. An optical information recording medium, comprising:

a substrate with at least one selected from the group consisting of a groove and a pit formed on one surface thereof;

at least one information layer provided on the surfaces of the substrate, the information layer comprising at least one selected from the group consisting of a recording film and a reflective film;

a resin layer provided on the information layer; and

a light transmission layer provided on the resin layer,

wherein the resin layer comprises a first resin film and a second resin film disposed in this order from the side of the light transmission layer, and when the flexural modulus of elasticity of the first resin film is represented by D1 and the flexural modulus of elasticity of the second resin film is represented by D2, D1 and D2 are different from each other.

16. The optical information recording medium according to claim 15, wherein the flexural modulus of elasticity D1 of the first resin film and the flexural modulus of elasticity D2 of the second resin film satisfy: $D2 > D1$.

17. The optical information recording medium according to claim 15, wherein the flexural modulus of elasticity D2 of the second resin film is 3×10^5 Pa or more.

18. The optical information recording medium according to claim 15, wherein the difference in the flexural modulus of elasticity between the first resin film and the second resin film is 1×10^5 Pa or more and 1×10^7 Pa or less.

19. The optical information recording medium according to claim 15, wherein the thickness of the light transmission layer is 100 μm or less.

20. The optical information recording medium according to claim 15, wherein the second resin film comprises at least an ultraviolet curable resin.

21. The optical information recording medium according to claim 15, wherein when the thickness of the first resin film is represented by H1 and the thickness of the second resin film is represented by H2, H1 and H2 satisfy: $H1 > H2$.

22. The optical information recording medium according to claim 21, wherein the thickness H2 of the second resin film is 0.2 μm or more and 0.5 μm or less.

5 23. The optical information recording medium according to claim 15, wherein the information layer comprises a first protective film, the recording film, a second protective film and the reflective film disposed in this order from the side in which a laser beam is incident,
the first protective film comprises ZnS, and
10 the second resin film is provided in contact with the first protective film.

24. The optical information recording medium according to claim 15, wherein the pit is formed on the surface of the substrate, the information
15 layer is made of the reflective film comprising at least one selected from the group consisting of Ag, Al and Si, and the second resin film is provided in contact with the reflective film.

25. The optical information recording medium according to claim 15,
20 wherein the second resin film is formed by spin coating.

26. The optical information recording medium according to claim 15, wherein a plurality of information layers are provided between the substrate and the resin layer.
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